

Attachment 11
Case Studies: Comparing Observed and Adjusted Scores for 40
Facilities Each in Seven QMs

CCNT03

SYSTEM INTERNAL FACILITY ID	CMI	Observed QM	New Covariate Model	Old Covariate Model	FAP Adjusted Model
High QM / High CMI					
1	1.24	27.27%	28.13%	28.55%	30.08%
2	1.15	27.27%	25.54%	26.91%	26.50%
3	1.23	27.27%	23.58%	30.84%	30.57%
4	1.18	28.40%	23.04%	25.38%	23.51%
5	1.25	28.57%	25.60%	29.23%	27.21%
6	1.23	28.81%	26.37%	30.30%	28.70%
7	1.17	29.41%	27.31%	29.89%	30.76%
8	1.29	29.85%	25.21%	30.33%	28.31%
9	1.19	30.51%	28.03%	31.83%	31.61%
10	1.30	30.91%	30.25%	40.95%	42.92%
11	1.17	31.67%	28.06%	33.02%	35.22%
12	1.19	32.14%	29.15%	32.84%	33.50%
13	1.15	32.35%	29.33%	32.43%	31.06%
14	1.16	34.04%	28.28%	32.16%	30.27%
15	1.16	34.69%	35.16%	41.50%	41.25%
16	1.18	34.78%	31.84%	38.37%	39.99%
17	1.17	36.36%	37.71%	41.73%	40.98%
18	1.16	36.67%	34.72%	37.29%	35.94%
19	1.21	38.78%	34.09%	40.11%	39.06%
20	1.18	45.95%	39.91%	43.24%	44.52%
Low QM / Low CMI					
1	0.66	0.00%	0.35%	0.36%	0.42%
2	0.52	0.00%	0.77%		
3	0.71	0.00%	0.40%	0.62%	0.67%
4	0.67	0.00%	1.13%		
5	0.73	0.00%	1.16%		
6	0.72	1.25%	1.30%	1.29%	1.39%
7	0.69	2.30%	3.58%	1.92%	2.19%
8	0.73	2.33%	3.09%		
9	0.73	2.94%	2.93%	3.15%	3.54%
10	0.73	3.13%	2.96%		
11	0.72	3.28%	4.00%	6.74%	8.11%
12	0.70	3.45%	3.41%	4.19%	4.57%
13	0.74	4.00%	8.67%		
14	0.75	5.56%	6.13%		
15	0.67	5.71%	5.00%	2.84%	3.27%
16	0.73	5.77%	8.18%	9.05%	10.19%
17	0.74	5.77%	6.19%	8.07%	8.10%
18	0.75	5.88%	7.01%	6.82%	6.84%
19	0.71	6.00%	6.66%	5.86%	6.22%
20	0.59	6.44%	8.38%	11.94%	14.18%

CINFOX

SYSTEM INTERNAL FACILITY ID	CMI	Observed QM	New Covariate Model	Old Covariate Model	FAP Adjusted Model
High QM / High CMI					
1	1.16	24.76%	20.22%		26.21%
2	1.15	25.00%	21.61%		17.94%
3	1.18	25.00%	20.92%		15.48%
4	1.20	25.00%	19.85%		20.11%
5	1.24	25.00%	19.02%		12.31%
6	1.15	26.19%	24.44%		16.69%
7	1.16	26.72%	24.88%		16.71%
8	1.18	28.21%	29.67%		17.52%
9	1.30	29.00%	15.94%		19.06%
10	1.21	29.73%	16.60%		24.03%
11	1.25	30.14%	24.20%		27.30%
12	1.22	30.26%	25.79%		23.80%
13	1.24	30.51%	21.58%		17.60%
14	1.15	33.33%	28.69%		21.19%
15	1.22	33.33%	28.89%		31.50%
16	1.19	34.57%	29.28%		22.98%
17	1.32	36.36%	22.11%		34.87%
18	1.20	36.84%	29.68%		27.27%
19	1.51	41.67%	20.95%		39.65%
20	1.55	50.00%	33.57%		31.09%
Low QM / Low CMI					
1	0.66	0.00%	0.64%		0.57%
2	0.62	0.00%	0.51%		0.48%
3	0.71	0.00%	0.65%		0.63%
4	0.67	0.00%	0.85%		0.72%
5	0.74	0.00%	0.57%		0.65%
6	0.74	0.00%	0.81%		0.79%
7	0.73	0.00%	0.56%		0.55%
8	0.74	0.00%			1.17%
9	0.59	0.68%	0.98%		1.06%
10	0.56	1.98%	2.83%		3.12%
11	0.73	2.04%	2.84%		2.39%
12	0.60	2.41%	3.69%		3.16%
13	0.73	2.70%	1.86%		3.72%
14	0.74	2.74%	3.53%		4.07%
15	0.68	3.33%	4.33%		4.73%
16	0.67	3.53%	5.60%		3.76%
17	0.69	4.00%	4.65%		6.23%
18	0.71	4.70%	6.07%		5.81%
19	0.62	4.92%	7.25%		6.97%
20	0.75	5.09%	5.78%		7.88%

CNUT01

SYSTEM INTERNAL FACILITY ID	CMI	Observed QM	New Covariate Model	Old Covariate Model	FAP Adjusted Model
High QM / High CMI					
1	1.20	15.15%	6.40%	10.93%	5.73%
2	1.21	16.54%	10.93%	14.21%	10.13%
3	1.25	17.02%	7.16%	13.08%	4.48%
4	1.19	17.96%	27.70%	23.98%	18.55%
5	1.15	18.00%	8.02%	15.29%	5.96%
6	1.19	19.84%	17.44%	22.91%	10.73%
7	1.17	20.73%	12.22%	15.62%	9.85%
8	1.16	20.97%	8.24%	12.87%	8.67%
9	1.17	22.86%	14.64%	21.10%	20.30%
10	1.18	22.95%	13.95%	18.13%	10.49%
11	1.22	26.56%	10.79%	20.22%	11.91%
12	1.17	27.78%	12.33%	17.05%	9.49%
13	1.27	28.57%	9.28%	26.97%	8.04%
14	1.22	28.79%	15.55%	26.48%	25.44%
15	1.28	29.94%	9.92%	21.40%	13.41%
16	1.20	30.65%	25.06%	29.22%	4.20%
17	1.36	32.94%	11.35%	26.20%	8.30%
18	1.17	33.65%	12.49%	26.14%	15.60%
19	1.18	40.35%	17.62%	48.35%	14.17%
20	1.22	47.37%	11.95%	33.34%	18.77%
Low QM / Low CMI					
1	0.71	0.00%	3.46%	0.50%	0.78%
2	0.67	0.00%	3.07%	0.93%	1.40%
3	0.75	0.00%	4.17%	0.91%	1.37%
4	0.73	0.00%	0.57%	0.39%	0.58%
5	0.72	0.00%	1.54%	0.28%	0.43%
6	0.68	0.00%	1.55%	0.63%	0.95%
7	0.69	0.00%	0.99%	0.46%	0.69%
8	0.71	0.00%	1.21%	0.30%	0.46%
9	0.61	0.00%	7.75%	1.13%	1.74%
10	0.65	0.00%	4.14%	0.70%	1.08%
11	0.71	0.00%	0.80%	0.61%	0.90%
12	0.73	0.00%	0.65%	0.33%	0.51%
13	0.75	0.00%	0.87%	0.53%	0.79%
14	0.58	0.00%	4.77%	0.61%	0.95%
15	0.70	0.00%	2.58%	0.36%	0.54%
16	0.74	0.00%	0.45%	0.39%	0.58%
17	0.60	0.00%	3.16%	0.44%	0.68%
18	0.75	0.00%	0.73%	0.47%	0.71%
19	0.72	0.00%	6.05%	0.98%	1.04%
20	0.71	0.00%	1.19%	0.54%	0.79%

CPA10X

SYSTEM INTERNAL FACILITY ID	CMI	Observed QM	New Covariate Model	Old Covariate Model	FAP Adjusted Model
High QM / High CMI					
1	1.20	22.83%	24.95%	23.01%	9.09%
2	1.22	23.08%	20.00%	21.09%	15.49%
3	1.18	23.28%	21.77%	22.08%	16.14%
4	1.15	23.33%	29.66%	26.84%	16.70%
5	1.24	24.00%	21.88%	22.32%	10.82%
6	1.53	24.53%	18.02%	20.07%	24.45%
7	1.16	25.40%	28.83%	29.02%	25.77%
8	1.33	25.81%	24.02%	23.40%	13.09%
9	1.17	25.81%	18.78%	18.06%	8.78%
10	1.17	26.21%	28.37%	27.38%	9.78%
11	1.21	27.40%	25.84%	26.22%	16.81%
12	1.17	27.59%	25.37%	26.46%	7.07%
13	1.19	27.68%	21.37%	22.00%	13.93%
14	1.18	28.71%	26.83%	26.70%	20.64%
15	1.18	30.14%	26.87%	26.82%	13.74%
16	1.18	32.29%	31.54%	30.61%	30.97%
17	1.28	34.40%	33.22%	33.21%	26.04%
18	1.17	41.43%	42.14%	39.86%	27.59%
19	1.16	45.46%			
20	1.19	58.00%	65.14%	63.79%	49.03%
Low QM / Low CMI					
1	0.74	0.00%	0.48%	0.48%	1.24%
2	0.75	0.00%	0.86%	0.62%	1.17%
3	0.75	0.00%	0.57%	0.41%	0.93%
4	0.70	0.00%	0.41%	0.39%	0.85%
5	0.73	0.00%	0.50%	0.35%	0.74%
6	0.74	0.00%	0.78%	0.69%	0.64%
7	0.58	0.00%			
8	0.69	0.00%	0.31%	0.29%	0.47%
9	0.74	0.00%	0.24%	0.28%	0.28%
10	0.60	0.00%	0.59%	0.60%	1.19%
11	0.74	0.00%	0.43%	0.44%	0.75%
12	0.74	0.00%	0.40%	0.41%	0.47%
13	0.75	0.90%	0.86%	0.84%	1.49%
14	0.72	0.97%	0.92%	0.91%	0.67%
15	0.61	1.21%	1.14%	1.59%	3.70%
16	0.70	1.30%	1.11%	1.09%	1.43%
17	0.73	1.49%	1.78%	1.65%	0.35%
18	0.73	1.55%	2.00%	2.07%	4.02%
19	0.61	1.80%	1.68%	1.51%	2.83%
20	0.69	1.89%	2.24%	2.14%	2.07%

CPRU01

SYSTEM INTERNAL FACILITY ID	CMI	Observed QM	New Covariate Model	Old Covariate Model	FAP Adjusted Model
High QM / High CMI					
1	1.27	15.18%	12.85%		10.44%
2	1.20	15.29%	18.34%		9.94%
3	1.15	15.91%	13.49%		6.30%
4	1.16	15.91%	13.86%		16.33%
5	1.23	16.30%	9.85%		10.06%
6	1.20	16.39%	14.93%		12.03%
7	1.31	16.43%	8.78%		10.25%
8	1.19	16.44%	9.69%		12.24%
9	1.20	16.51%	11.38%		13.29%
10	1.19	16.88%	10.26%		6.75%
11	1.23	17.47%	11.08%		11.87%
12	1.26	18.03%	10.58%		9.48%
13	1.16	18.44%	10.94%		11.18%
14	1.17	18.48%	14.39%		16.24%
15	1.30	21.98%	21.38%		19.33%
16	1.15	22.35%	16.13%		17.09%
17	1.27	22.73%	10.04%		21.78%
18	1.15	23.61%	14.14%		17.37%
19	1.16	24.24%			20.48%
20	1.44	25.00%	17.64%		15.84%
Low QM / Low CMI					
1	0.68	0.00%	1.94%		1.04%
2	0.68	0.00%	1.15%		0.48%
3	0.65	0.00%	1.23%		0.46%
4	0.63	0.00%	2.28%		0.52%
5	0.75	0.00%	0.54%		0.26%
6	0.66	0.00%	0.99%		0.42%
7	0.52	0.00%	0.79%		0.18%
8	0.71	0.00%			0.88%
9	0.71	0.00%	0.97%		0.93%
10	0.71	0.00%	0.63%		0.93%
11	0.72	0.00%	1.69%		1.17%
12	0.75	1.12%	1.45%		1.03%
13	0.71	1.49%	3.85%		2.17%
14	0.71	1.72%	2.16%		1.83%
15	0.71	1.92%	3.21%		2.56%
16	0.71	2.16%	3.43%		2.69%
17	0.75	2.22%	3.17%		3.21%
18	0.70	2.27%	2.96%		2.82%
19	0.73	2.44%	3.11%		3.39%
20	0.73	2.44%	4.19%		3.09%

PPAI0X

SYSTEM INTERNAL FACILITY ID	CMI	Observed QM	New Covariate Model	Old Covariate Model	FAP Adjusted Model
High QM / High CMI					
1	1.35	45.71%	52.67%		42.27%
2	1.60	45.95%	58.29%		30.63%
3	1.37	46.67%	53.39%		59.32%
4	1.36	48.28%	37.12%		47.80%
5	1.43	48.84%	59.38%		20.11%
6	1.38	49.09%	39.87%		24.01%
7	1.37	50.00%			19.74%
8	1.39	50.00%	50.64%		33.82%
9	1.36	52.38%			33.19%
10	1.36	52.83%	45.78%		20.75%
11	1.51	52.94%	58.33%		28.56%
12	1.42	53.85%	46.28%		18.94%
13	1.35	55.56%	59.99%		30.01%
14	1.35	56.00%			38.84%
15	1.46	58.33%	60.82%		33.03%
16	1.35	60.66%	53.51%		26.83%
17	1.44	60.87%	62.61%		32.07%
18	1.36	61.91%			39.22%
19	1.36	68.18%	69.87%		48.64%
20	1.41	77.27%	83.45%		41.25%
Low QM / Low CMI					
1	1.06	0.00%	1.14%		1.89%
2	0.80	0.00%	1.07%		3.42%
3	1.13	0.00%			3.96%
4	1.08	0.00%			2.92%
5	1.07	0.00%	0.56%		0.96%
6	1.13	0.00%	1.34%		2.38%
7	1.07	0.00%	1.55%		3.78%
8	1.10	2.50%	2.88%		8.90%
9	1.06	3.03%			6.53%
10	1.06	3.45%	3.19%		4.09%
11	1.11	3.64%	4.94%		9.49%
12	1.03	3.70%	6.60%		6.72%
13	1.09	4.35%	4.44%		8.86%
14	1.12	4.44%	3.50%		3.91%
15	1.08	4.76%	5.70%		6.36%
16	1.12	4.76%	3.93%		6.81%
17	1.12	5.56%	5.24%		11.40%
18	1.10	7.32%	10.12%		22.79%
19	0.94	7.41%	11.54%		16.04%
20	1.10	7.84%	5.65%		18.93%

PWAL0X

SYSTEM INTERNAL FACILITY ID	CMI	Observed QM	New Covariate Model	Old Covariate Model	FAP Adjusted Model
High QM / High CMI					
1	1.39	50.00%	58.86%		60.75%
2	1.46	51.11%	66.72%		61.42%
3	1.45	51.49%	56.46%		55.96%
4	1.35	51.52%	57.99%		62.97%
5	1.36	51.54%	52.93%		50.67%
6	1.36	51.72%	56.48%		65.35%
7	1.40	51.85%	49.45%		52.41%
8	1.44	52.38%	57.03%		48.33%
9	1.35	52.54%	53.88%		58.97%
10	1.38	54.17%	63.09%		59.07%
11	1.35	54.17%	62.06%		55.66%
12	1.40	54.17%	56.20%		53.92%
13	1.57	54.55%	61.71%		63.23%
14	1.43	55.00%	64.65%		66.20%
15	1.51	55.07%	60.96%		60.13%
16	1.35	58.70%	63.05%		65.79%
17	1.41	58.97%	66.25%		54.76%
18	1.42	65.00%	69.86%		69.56%
19	1.70	69.05%	78.62%		66.30%
20	1.35	71.88%	71.57%		69.53%
Low QM / Low CMI					
1	1.13	0.00%	1.07%		1.84%
2	1.05	4.35%	3.52%		3.52%
3	1.02	5.00%	6.53%		3.44%
4	1.13	6.38%	6.12%		9.07%
5	1.10	8.00%	7.52%		8.86%
6	1.12	8.33%	9.23%		7.89%
7	1.12	8.48%	8.94%		7.71%
8	1.10	8.70%	9.14%		13.01%
9	1.10	8.70%	7.49%		7.32%
10	1.12	8.82%	9.03%		10.90%
11	1.13	9.09%	9.15%		6.30%
12	1.10	9.52%	7.62%		6.53%
13	1.12	10.00%	9.49%		17.89%
14	1.12	10.00%	8.82%		7.34%
15	1.12	11.11%	8.01%		7.06%
16	1.10	11.43%	13.21%		15.49%
17	1.11	11.43%	10.90%		16.08%
18	1.09	11.43%	10.65%		8.57%
19	1.12	11.54%	13.37%		16.12%
20	1.08	12.25%	10.27%		7.87%